

**Exhibit 4-2** Percentage of air-dry matter in harvested plant material at various stages of growth

Grasses	Before heading; initial growth to boot stage (%)	Headed out; boot stage to flowering (%)	Seed ripe; leaf tips drying (%)	Leaves dry; stems partly dry (%)	Apparent dormancy (%)
<b>Cool-season</b>	35	45	60	85	95
wheatgrasses					
perennial bromes					
bluegrasses					
prairie junegrass					
<b>Warm-season</b>					
tall grasses	30	45	60	85	95
bluestems					
indiangrass					
switchgrass					
<b>Midgrasses</b>	40	55	65	90	95
sideoats grama					
tobosa					
galleta					
<b>Short grasses</b>	45	60	80	90	95
blue grama					
buffalograss					
short three-awns					

  

Trees	New leaf and twig growth until leaves	Older and full- size green leaves (%)	Green fruit (%)	Dry fruit (%)
<b>Evergreen coniferous</b>	45	55	35	85
ponderosa pine, slash				
pine-longleaf pine				
Utah juniper				
Rocky Mountain juniper				
spruce				
<b>Live oak</b>	40	55	40	80
<b>Deciduous</b>	40	50	35	85
blackjack oak				
post oak				
hickory				

**Exhibit 4-2** Percentage of air-dry matter in harvested plant material at various stages of growth—Continued

<b>Shrubs</b>	<b>New leaf and twig growth until leaves are full size (%)</b>	<b>Older and full-size green leaves (%)</b>	<b>Green fruit (%)</b>	<b>Dry fruit (%)</b>
<b>Evergreen</b>	55	65	35	85
big sagebrush				
bitterbrush				
ephedra				
algerita				
gallberry				
<b>Deciduous</b>	35	50	30	85
snowberry				
rabbitbrush				
snakeweed				
Gambel oak				
mesquite				
<b>Yucca and yucca-like plants</b>	55	65	35	85
yucca				
sotol				
saw-palmetto				

  

<b>Forbs</b>	<b>Initial growth to flowering (%)</b>	<b>Flowering to seed maturity (%)</b>	<b>Seed ripe; leaf tips dry (%)</b>	<b>Leaves dry; stems drying (%)</b>	<b>Dry (%)</b>
<b>Succulent</b>	15	35	60	90	100
violet					
waterleaf					
buttercup					
bluebells					
onion, lilies					
<b>Leafy</b>	20	40	60	90	100
lupine					
lespedeza					
compassplant					
balsamroot					
tickclover					
<b>Fibrous leaves or mat</b>	30	50	75	90	100
phlox					
mat eriogonum					
pussytoes					

  

<b>Succulents</b>	<b>New growth pads and fruits (%)</b>	<b>Older pads (%)</b>	<b>Old growth in dry years (%)</b>
<b>Pricklypear and barrel cactus</b>	10	10	15+
<b>Cholla cactus</b>	20	25	30+